

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 07/01/03

Date Received: 06/23/03

Project: % of Acid, PO# M20121, F&BI 306210

Date Analyzed: 06/30/03

**RESULTS FROM THE ANALYSIS OF THE AQUEOUS SAMPLES
FOR PERCENT OF ACID**

Sample ID

Laboratory ID

Percent of Acid

M20121A

306210-01

9.7

M20121B

306210-02

9.4

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**RESULTS FROM THE ANALYSIS OF THE AQUEOUS SAMPLES
FOR SPECIFIC GRAVITY
@ 15.56 °C**

Sample ID
Laboratory ID

Specific Gravity

M20121A
306210-01

1.18

M20121B
306210-02

1.23

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**RESULTS FROM THE ANALYSIS OF THE AQUEOUS SAMPLE
FOR FINGERPRINT CHARACTERIZATION
BY INDUCTIVELY COUPLED PLASMA (ICP)
EMISSION SPECTROSCOPY**

The Metals Were Found at Approximate Levels Indicated
Results Reported as mg/L (ppm)

Sample ID: M20121A

Laboratory ID: 306210-01

Iron 38,000 ppm

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**RESULTS FROM THE ANALYSIS OF THE AQUEOUS SAMPLE
FOR FINGERPRINT CHARACTERIZATION
BY INDUCTIVELY COUPLED PLASMA (ICP)
EMISSION SPECTROSCOPY**

The Metals Were Found at Approximate Levels Indicated
Results Reported as mg/L (ppm)

Sample ID: M20121B

Laboratory ID: 306210-02

Iron 30,000 ppm

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**QUALITY ASSURANCE RESULTS
FROM ANALYSIS FOR PERCENT OF ACID**

Laboratory Code: 306210-02 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Percent of Acid	9.5	9.4	1	0-20

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**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF AQUEOUS SAMPLES
FOR SPECIFIC GRAVITY
@ 15.56 °C**

Laboratory Code: 306210-01 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Specific Gravity	1.18	1.19	0.8	0-2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

July 1, 2003

DUPLICATE COPY

INVOICE #03ACU0701-1

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project % of Acid, PO# M20121, F&BI 306210 - Results of testing requested
by Gerry Thompson for material submitted on June 23, 2003.

2 samples analyzed for Total Iron by Method 6010B @ \$30 per sample	\$ 60.00
2 samples analyzed for Specific Gravity @ \$25 per sample	50.00
2 samples analyzed for Percent Acid Content @ \$50 per sample	<u>100.00</u>
Amount Due	\$ 210.00

FEDERAL TAX ID # (b) (6)

306210

SAMPLE CHAIN OF CUSTODY

CM 06/23/03 AI 1

Send Report To

G. Thompson

Company

ALASKAN Copper Works

Address

628 S. Harvard ST.

City, State, ZIP

SEATTLE WA 98134

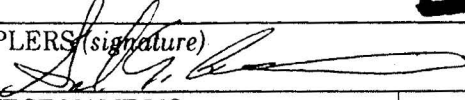
Phone #

206-382-8379

Fax #

206-382-4309

SAMPLERS (signature)



PROJECT NAME/NO.

% of Acid

PO #

M20121

REMARKS

Rush with Verabels

Page # _____ of _____

TURNAROUND TIME

☐ Standard (2 Weeks)☒ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	% of Acid	Spec. Gravity	FE		
M20121A	01	6/23/03	10:30	H ₂ O	1							✓	✓	✓		
M20121B	02	6/23/03	10:30	H ₂ O	1							✓	✓	✓		

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

SIGNATURE

Relinquished by:

Received by:

Relinquished by:

Received by:

PRINT NAME

GERALD Thompson

Tara E. Debraff

COMPANY

ACW

FeBI

DATE

6/23/03

06/23/03

TIME

11:47am

11:50

FRIEDMAN & BRUYA, INC.

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July 1, 2003

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

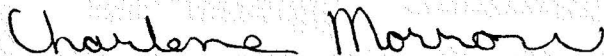
Dear Mr. Thompson:

Included are the results from the testing of material submitted on June 23, 2003 from the % of Acid, PO# M20121, F&BI 306210 project. There are 6 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Morrow
Chemist

Enclosures
ACU0701R.DOC